M N O P DRAFT AFRP Programmatic Guidance for Anadromous Salmonid Habitat Restoration Project Planning and Implementation 12/19/2005 Working Paper, # LF Not Completed (C) or AFRP Restoration AFRP Restoration # A&E Not **Working Paper** AFRP Restoration AFRP Restoration Completed or Ongoing AFRP Watershed Limiting **Project Start** Total # Yet Stream Ongoing (O) **Agreement Number** Stream Plan Actions Not Plan Evaluations LF Yet otal # A& A&E Year Limiting Factor Plan "Action^b" Plan "Evaluation b Projects^c Factors Not Yet Address LFs Projects Yet Addressed^b Completed Addressed Completed Not Yet Addressed Addressed^a atershed planning Survey habitat in Secret American River 11332-8-J113 1998 5, p.3-Xc-38^a С 8, p.78^t avine, tributary to Dry Creek atershed planning Assist locally led efforts to 1. p.3-Xc-37; 2. p.3-Xc-37; 1. p.76; 2. p.77; 3. p.77; 5 American River **3**, p.3-Xc-38; **6**, p.3-Xc-38; p.77; **6**, p.77; **7**, p.78; **9**, **1**, p.79; **2**, p.79; **3**, p.79 5 29% 15% 11 13 (10,3) C 1999 American River 5, p.3-Xc-38 11332-9-J021 8, p.78 develop a watershed management strategy for Dr 7, p.3-Xc-38 p.78; **10**, p.78 Water quality-Lower American River Temperatu 2003 American River 0 11332-3-J004 4. p.3-Xc-38 4. p.77 Reduction Modeling Project ydrological modeling/monitoringMaintain rea 11332-6-0186 C 1996 Antelope Creek 1, p.3-Xb-34 1, p.50 **1**, p.51 ime flow monitors on Antelope, Mill, Deer, Big 11332-0-J011 Chico and Butte Creeks 2, p.3-Xb-34 50% 2 (1,1) 100% Antelope Creek Superseded by needs Superseded by needs Fish passage-Antelope and Deer Creek fish 2005 Antelope Creek 0 81330-5-G353 AFRP the AFRP the AFRP passage improvement mendment to JSA contract: 14 Fish passage-Investigate solutions to the 48-0001-96004 1448-0001nscreened Coleman National Fish Hatchery wa Battle Creek 3, p.3-Xb-21 С 8, p.48 93044 elivery system, Phase I: Long-term Intake Fix Watershed planning Continue to develop a 1997 Battle Creek С 11330-7-J024A 2, p.49; 4, p.49 community-based plan for restoration and AFRP eservation of the Battle Creek watershed Superseded by needs of the AFRP Anadromous fish monitoring Continue to surve and monitor adult winter- and spring-run Chinook uperseded by needs of the Superseded by needs of 1998 Battle Creek С OFT salmon on Battle Creek Fish passage Investigate solutions to the unscreened Coleman National Fish Hatchery wat delivery system, Phase III: Develop a study plan 1998 Battle Creek 3, p.3-Xb-21 С 14-48-0001-96004 **8**, p.48 for the prototype screen Fish passage Investigate solutions to the 1, p.3-Xb-20; **2**, p.3-Xb-21; **1**, p.46; **2**, p.47; **3**, p.48; **4**, p.3-Xb-21; **5**, p.3-Xb-21 nscreened Coleman National Fish Hatchery wa 11240-8-M128 1998 Battle Creek 3, p.3-Xb-21 С **8**, p.48 delivery system, Phase II: Construct interim 4 20% 12 (8,4) 25% 10181-8-C005 Battle Creek 1, p.49; 3, p.49 olutions to the unscreened intakes at Coleman uperseded by needs of the AFRP Watershed education Environmental Education 2000 Battle Creek С 11330-9-J081A 2, p.107 (CV-Wide) Program for Battle Creek Watershed Residents Watershed planning Hatchery Re-evaluation: Assist with analysis of alternative management strategies designed to integrate Coleman National 2000 Battle Creek 5, p.3-Xa-13 (Upper Sac) 10181-0-M712A **4**, p.49 Fish Hatchery operations with restoration of nature opulations of Chinook salmon and steelhead in Battle Creek Riparian acquisition and restoration perseded by needs of t Superseded by needs of Superseded by needs of 2000 Battle Creek С 11330-0-G104A Conservation Easement: Eagle Canyon area the AFRP the AFRP Battle Creek perseded by needs of the AFRP latershed planning-Battle Creek Watershed Battle Creek **2**, p.49; **4**, p.49 11330-1-J113A tewardship, Phase II 1995-2005 I, p.3-Xb-15; **2**, p.3-Xb-15 Bear Creek 1, p.44; 2, p.44 0% 2 (2,0) 0% 1, p.3-Xc-31; **2**, p.3-Xc-31; **1**, p.74; **2**, p.74; **3**, p.74; **4**, **1**, p.74; **2**, p.75; **3**, p.75; **4** 5 1995-2005 Bear River Bear River 0% 8 (4,4) 0% **5**, p.3-Xc-31 adromous fish life history/survivalContinue perseded by needs of 11332-5-0228 14, p.67 (Butte) С 1995 Big Chico Creek to evaluate the juvenile life history of spring-run AFRP 11332-8-G126 hinook salmon in Butte and Big Chico Creek Water Quality Big Chico Creek One Mile Pool 1996 Big Chico Creek 4, p.3-Xb-71 С 11332-6-0187 **5**, p.59

| А | | В | С | D | E | F | G | Н | I | J | К | L | М | N | 0 | Р | Q | R |
|-----------|----|-----------------|---------------------------------|-----|------------------------------|----------------------------|------------------|---|-----------------|--|--|---|----|----|-----|----|------------|-----|
| 199 | 96 | Big Chico Creek | Superseded by needs of the AFRP | С | 11332-6-0207 | 6 , p.59 | | Riparian acquisition and restorationPeterson property acquisition and restoration | | | | | | | | | | |
| 199 | 99 | Big Chico Creek | Superseded by needs of the AFRP | С | 11332-9-G017 | 1 , p.107 (CV-Wide) | | Watershed education Provide "Adopt-A-Watershed" training for teachers in the Chico Unified School District | Big Chico Creek | 1 , p.3-Xb-71; 3 , p.3-Xb-71; 5 , p.3-Xb-71 | 1 , p.58; 3 , p.58; 4 , p.59; 7 , p.59 | 1 , p.60; 2 , p.60 | 3 | 5 | 40% | 6 | 10 (8,2) | 40% |
| 199 | 99 | Big Chico Creek | 2 , p.3-Xb-71 | С | 11332-9-J028 | 2 , p.58 | | Fish passage Provide analyses to improve fish passage through Iron Canyon on Big Chico Creek | | · · | · | | | | | | | |
| 200 | 00 | Big Chico Creek | Superseded by needs of the AFRP | С | 11332-0-G014 | 6 , p.59 | | Riparian acquisition and restorationPre- Acquisition of the Singh property on Big Chico Creek | | | | | | | | | | |
| 200 | 04 | Big Chico Creek | Superseded by needs of the AFRP | 0 | 11332-4-G003 | 8 , p.60 | | Watershed planning-Facilitate development of proposals for Big Chico Crk Watershed Alliance | | | | | | | | | | |
| 200 | 00 | Big Chico Creek | Superseded by needs of the AFRP | С | 11332-0-G012 | 6 , p.59 | | Riparian acquisition and restorationAcquire Simmons Ranch on Big Chico Creek | | | | | | | | | | |
| 199 | 96 | Butte Creek | 27 , p.3-Xb-82 | С | 11332-8-G105 11332-6-O193 | 21 , p.64 | | Watershed planning Continue development of Butte Creek Watershed Conservancy watershed management strategy | | | | | | | | | | |
| 199 | 97 | Butte Creek | 18 , p.3-Xb-81 | С | OFT | 4 , p.61 | | Fish passage Construct a high water volume fish ladder and screens on Durham Mutual Diversion Dam | | | | | | | | | | |
| 199 | 97 | Butte Creek | 27 , p.3-Xb-82 | С | 11332-7-G195 | 19 , p.64 | | Riparian acquisition and restoration/Keeney Property on lower Butte Creek; riparian easement acquisition and restoration project | | | | | | | | | | |
| 199 | 98 | Butte Creek | 22 , p.3-Xb-81 | С | 11332-8-J125 | 22 , p.65 | | Fish passage Provide preliminary engineering analyses to improve fish passage for the Sanborn Slough Bifurcation on Butte Creek | | | | | | | | | | |
| 199 | 98 | Butte Creek | 27 , p.3-Xb-82 | С | 11332-8-G116 | 19 , p.64 | | Riparian acquisition and restorationAcquire and restore the McAmis property on upper Butte Creek | | | | | | | | | | |
| 199 | 98 | Butte Creek | 27 , p.3-Xb-82 | С | 11332-8-J104 | 19 , p.64 | | Anadromous fish monitoringContinue the Lowe Butte Creek Study, Phase 1b | | | | | | | | | | |
| 199 34 | 98 | Butte Creek | 27 , p.3-Xb-82 | С | 11332-8-J103 | 21 , p.65 | | Geomorphology Extend Butte Creek geomorphic study to Butte Slough | | | | | | | | | | |
| 199 35 | 99 | Butte Creek | 10 , p.3-Xb-80 | 0 | 11332-9-J006 | 16 , p.64 | | Fish passage Replace and upgrade existing adul exclusion weir and riser at Drumheller Slough | | | | | | | | | | |
| 199 | 99 | Butte Creek | 10 , p.3-Xb-80 | С | 11332-9-J005 | | 2 , p.65 | Fish passage Provide analyses to improve fish passage at Sutter Bypass East-West Diversion Weir | | 2 , p.3-Xb-79; 3 , p.3-Xb-79; | | | | | | | | |
| 199 37 | 99 | Butte Creek | 16 , p.3-Xb-80 | С | 11332-9-J004 | | 11 , p.67 | Fish passage Provide analyses to improve fish passage at Sutter Bypass Weir 3 on Butte Creek | | 4, p.3-Xb-79; 5, p.3-Xb-79; 6, p.3-Xb-79; 7, p.3-Xb-79; 9, p.3-Xb-79; 12, p.3-Xb-80: 14, p.3-Xb- | p.61; 6, p.62; 7, p.62; 8, | | | | | | | |
| 199 38 | 99 | Butte Creek | 15 , p.3-Xb-80 | С | 11332-9-J007 | | 10 , p.67 | Fish passage Provide analyses to improve fish passage at Sutter Bypass Weir 5 (Farmers Weir) | Butte Creek | 80; 13 , p.3-Xb-80; 14 , p.3-Xb-80; 17 , p.3-Xb-81; 19 , p.3-Xb-81; 20 , p.3-Xb-81; 21 , p.3-Xb-81; 23 , p.3-Xb- | p.63; 15, p.63; 17, p.64; 20, | p.66; 9, p.66; 12 , p.67; 13 , p.67; 15 , p.68 | 17 | 27 | 34% | 26 | 39 (24,15) | 33% |
| 199 | 99 | Butte Creek | 27 , p.3-Xb-82 | C/O | 11332-9-J003 11332-0-J006 | 22 , p.65 | | Watershed planning Continue to assist locally led efforts to facilitate coordination of the Butte Sink/Sutter Bypass stakeholders | | 81; 24 , p.3-Xb-81; 26 , p.3-Xb-81 | | | | | | | | |
| 200 | 00 | Butte Creek | 11 , p.3-Xb-80 | С | 11332-0-J003 | | | Fish passage Develop recommendations for enhanced fish passage in the Butte Slough area o lower Butte Creek | | | | | | | | | | |
| 200 | 00 | Butte Creek | 1 , p.3-Xb-78 | С | 11332-0-J010 | | 5 , p.66 | Hydrological modeling/monitoring/nstall and maintain real-time flow monitors at the Sanborn Slough Bifurcation Structure | | | | | | | | | | |
| 200 | 00 | Butte Creek | 27 , p.3-Xb-82 | С | 11332-0-G002 | 19 , p.64 | | Riparian acquisition and restorationPromote revegetation of recently rip-rapped areas in the vicinity of Okie Dam on Butte Creek | | | | | | | | | | |
| 200 | 00 | Butte Creek | 25 , p.3-Xb-81 | 0 | 11332-0-J004 | | | Fish passage Develop a final list of pumping plants requiring screens and collect site specific information for each pumping plant for the east side of Sutter Bypass on lower ButteCreek | | | | | | | | | | |
| 200. | 02 | Butte Creek | 25 , p.3-Xb-81 | 0 | 11332-2-J002 | | 6 , p.66 | Fish passage Lower Butte Creek project Sutter Bypass-Willow Slough Weir Fish Passage; Preliminary engineering investigation | | | | | | | | | | |
| 200 | 03 | Butte Creek | 8 , p.3-Xb-79 | 0 | 11332-3-J003 | 18 , p.64 | | Fish passage White Mallard Dam and Associated Diversions; Phase III Construction | | | | | | | | | | |

| | Α | В | С | D | E | F | G | Н | I | J | K | L | М | N | 0 | Р | Q | R |
|----|------|---------------------|---------------------------------|---|------------------------------|---------------------------------|------------------|--|-----------------|---|---|-----------------|---|---|-----|---|---------|-----|
| 46 | 2004 | Butte Creek | Superceded by needs of the AFRP | 0 | 11332-4-J001 | | | Anadromous fish life history/survivaBig Chico and Butte Creeks restoration action for spring-run Chinook salmon and steelhead | | | | | | | | | | |
| 47 | 1999 | Calaveras River | Superceded by needs of the AFRP | С | 11332-9-G020 | Superceded by needs of the AFRP | | Anadromous fish monitoringSurvey spawning habitat for Chinook salmon | | | | | | | | | | |
| 48 | 2001 | Calaveras River | 1 , p.3-Xc-87 | 0 | 11332-1-G006 | | 2 , p.85 | Anadromous fish life history/survivaLower Calaveras River Chinook Salmon and Steelhead Life History Limiting Factors Analysis | Calaveras River | 2, p.3-Xc-87; 4, p.3-Xc-87; 5, p.3-Xc-88 | 1 , p.84; 2 , p.84; 4 , p.84 | 1 , p.84 | 3 | 5 | 40% | 4 | 6 (4,2) | 33% |
| 49 | 2003 | Calaveras River | 3 , p.3-Xc-87 | 0 | 11332-3-J009 | 3 , p.84 | | Fish passage Retrofit temporary fish passage facilities at Bellota Weir on the Calaveras River | | | | | | | | | | |
| 50 | 1997 | Central-Valley Wide | Superceded by needs of the AFRP | С | 11330-7-H018 | | 7 , p.108 | Anadromous fish monitoringAutomated fish marking and tagging system, mainstem Sacramento | | | | | | | | | | |
| 51 | 1998 | Central-Valley Wide | Superseded by needs of the AFRP | С | 11332-8-J200 | Superseded by needs of the AFRP | | Watershed planning-Support of three DFG biologists in Regions1, 2 and 4 to act as HRCs | | | | | | | | | | |
| 52 | 1998 | Central-Valley Wide | Superceded by needs of the AFRP | С | 11332-9-G032 | 1 , p.107 | | Watershed education Support programs to provide educational outreach and local involveme in restoration for teachers and students in the Lod Modesto and Merced school districts | | | | | | | | | | |
| 53 | 1998 | Central-Valley Wide | Superseded by needs of the AFRP | С | OFT | Superseded by needs of the AFRP | | Water Quality Further develop the basis for the Water Acquisition Program | | | | | | | | | | |
| 54 | 1999 | Central-Valley Wide | Superceded by needs of the AFRP | c | 11332-9-J012 11332-8-J012 | | 4 , p.108 | Anadromous fish life history/survivalContinue to conduct a pilot study of the use of otoliths to evaluate the role of Delta rearing in the life history of Central Valley Chinook salmon and steelhead | | | | | | | | | | |
| 55 | 1999 | Central-Valley Wide | Superceded by needs of the AFRP | С | 11332-9-J027 | | 4 , p.108 | Anadromous fish life history/survivalAnalyze the genetics of steelhead throughout the Central Valley | | | | | | | | | | |
| 56 | 1999 | Central Valley Wide | Superceded by needs of the AFRP | c | 11332-9-J022 | 2 , p.107 | | Watershed education Continue to provide funding for watershed group leaders to attend the "Working at a Watershed Level" course | | | | | | | | | | |
| 57 | 2000 | Central-Valley Wide | Superseded by needs of the AFRP | С | 11332-0-J028 | Superseded by needs of the AFRP | | Watershed planning-Develop an adaptive management forum for large-scale channel restoration projects | | | | | | | | | | |
| 58 | 2000 | Central-Valley Wide | Superceded by needs of the AFRP | c | 11332-0-G005 | 1 , p.107 | | Watershed education Provide support for Kids and Creeks: Restoration Ecology in Action for students in grades 2 through 12 in the Big Chico and Butte Creek and Feather River watersheds | | | | | | | | | | |
| 59 | 2000 | Central-Valley Wide | Superseded by needs of the AFRP | c | 11332-0-G020 | Superseded by needs of the AFRP | the AFRP | Anadromous fish monitoringCompile data for estimating hydraulic residence time in Central Valley streams | | | | | | | | | | |

| Second S | A | В | С | D | E | F | G | Н | I | J | К | L | М | N | 0 | Р | Q | R |
|--|-----------------|---------------------|----------------------|---|--------------|---------------------------------|---------------------------------|--|--------------------|--|---|-----------------|-----|-----|-----|---|-----------|-----|
| 12 | 2001 | Central-Valley Wide | | c | 10181-2-M382 | 2 , p.107 | | Stanislaus County of Public Land Acquisitions and Conservation Easements on Floodpain lands alon | | e N/A | 3 , p.107 | | N/A | N/A | N/A | 6 | 15 (4,11) | 60% |
| Demonstration Processing | 2001 | Central-Valley Wide | | 0 | 11332-1-J008 | | 4 , p.105 (Delta) | Comparative growth of Central Valley Riverine and Delta Rearing Juvenile Chinook Salmon Based on | | | | | | | | | | |
| Committee Comm | 2001 | Central-Valley Wide | | С | 11330-1-J084 | | 4 , p.108 | Sacramento River: Using molecular techniques to preserve genetic integrity of endangered salmon in | | | | | | | | | | |
| Part Part Color Part Color Part Color Part Part Color Part Par | 2001 | Central-Valley Wide | | 0 | 11332-1-G005 | | 11, p.41 (Upper Sac); 5 | Assessment of Green Sturgeon in the Sacramento | - | | | | | | | | | |
| A point Process Proc | 2002 | Central Valley Wide | | С | 10181-2-M251 | 2 , p.107 | | that will provide stakeholders with the required information addressing issues in the San Joaquin Valley thus allowing them to make more efficient | | | | | | | | | | |
| Solid Central Valley Web Constitution Const | 2002 | Central-Valley Wide | | 0 | 11332-2-J006 | | | of sex reversal in Central Valley Chinook salmon | | | | | | | | | | |
| 202 Central Valley vides Supervised by meets of the A 3-100 Supervised by meets o | 2002 | Central-Valley Wide | | С | 11332-8-G122 | 2 , p.107 | | watershed group leaders to attend the "Working at | | | | | | | | | | |
| 2003 Central Valley Wide Supermoded by reads of the C 10181-3-V0775 Supermoded by reads of the AFRP Supermoded by reads of the C 10181-3-V0775 Supermoded by reads of the AFRP Supermoded by reads of the C 10181-3-V0775 Supermoded by reads of the C 10181-3-V0775 Supermoded by reads of the AFRP Supermoded by reads of the C 10181-3-V0775 Supermoded by reads of the C C C C C C C C C | 2002 | Central-Valley Wide | | 0 | 11332-2-H005 | | 4 , p.108 | Comprehensive Assessment of Genetic Population Structure/Diversity of Central Valley | | | | | | | | | | |
| AFRP Decrease De | 2003 | Central-Valley Wide | | 0 | 11332-3-J001 | Superseded by needs of the AFRP | Superseded by needs of the AFRP | | | | | | | | | | | |
| ## Description of resident and analysis and provided by media of the AFFP 1995-2005 | 2003 | Central-Valley Wide | | С | 10181-3-V075 | | | Watershed planning Update the Handbook on Regulatory Compliance for the AFRP | | | | | | | | | | |
| 1995-2005 Colusa Basin Drain Colusa Basin Drain 1, p.43 6 6 0% 7 7 (6.1) 0% | 2003 | Central-Valley Wide | | 0 | 11332-3-J002 | | 4 , p.108 | the distribution and relationship of resident and anadromous life history of rainbow trout/steelhead | | | | | | | | | | |
| 1998 Cosumnes River 1, p.3-Xc-80 C 11332-8-J114 1, p.83 Hydrological modeling/monitoring/Develop a hydrologic model for the Cosumnes River 1999 Cosumnes River C 11332-9-J013 3, p.83 Chinook salmon and steelhead distribution, habitation use, and food habits within the Cosumnes River C 11332-9-J013 3, p.83 Anadromous fish life history/survivalContinue to assess Chinook salmon and steelhead distribution, habitation assess Chinook salmon and steelhead distribution, and the cosumnes River C 11332-9-J013 3, p.83 Anadromous fish life history/survivalContinue to assess Chinook salmon and steelhead distribution, habitation within the Cosumnes River C C Cosumnes River C C C C C C C C C | 1995-2005 71 | Clear Creek | | | | | | | Clear Creek | p.3-Xb-2; 4, p.3-Xb-2; 5, | | 1 , p.43 | 6 | 6 | 0% | 7 | 7 (6,1) | 0% |
| hydrologic model for the Cosumnes River Superceded by needs of the AFRP C | 1995-2005 72 | Colusa Basin Drain | | | | | | | Colusa Basin Drair | | 1 , p.68 | 1 , p.68 | N/A | N/A | N/A | 2 | 2 (1,1) | 0% |
| 1999 Cosumnes River Superceded by needs of the AFRP C 11332-9-J013 3, p.83 Chinook salmon and steelhead distribution, habitat use, and food habits within the Cosumnes River Preserve floodplain Cosumnes River Superceded by needs of the AFRP C 11332-9-J013 3, p.83 Chinook salmon and steelhead distribution, habitat use, and food habits within the Cosumnes River Preserve floodplain Cosumnes River Superceded by needs of the AFRP C 11332-0-G024 3, p.83 Anadromous fish life history/survivalContinue to assess Chinook salmon and steelhead distribution, habitat use, and food habits within the Cosumnes River 3, p.3-Xc-80; 4, p.3-Xc-8 | 1998 | Cosumnes River | 1, p.3-Xc-80 | С | 11332-8-J114 | | 1 , p.83 | | | | | | | | | | | |
| 2000 Cosumnes River Superceded by needs of the AFRP C 11332-0-G024 Super | 1999 | Cosumnes River | | С | 11332-9-J013 | | 3 , p.83 | Chinook salmon and steelhead distribution, habita use, and food habits within the Cosumnes River | | | | | | | | | | |
| | 2000 | Cosumnes River | | С | 11332-0-G024 | | 3 , p.83 | to assess Chinook salmon and steelhead distribution, habitat use, and food habits within the | Cosumnes River | 3 , p.3-Xc-80; 4 , p.3-Xc-80 | | Complete | 2 | 4 | 50% | 6 | 9 (6,3) | 33% |
| 2000 Cosumnes River 2, p.3-Xc-80 O 11332-0-J019 2, p.83 Fish passage Improve fish passage on the Cosumnes River | 76 2000 | Cosumnes River | 2 , p.3-Xc-80 | 0 | 11332-0-J019 | | 2 , p.83 | | | | | | | | | | | I |
| Fish passage Compare water supply/resource on | 2003 | Cosumnes River | 1, p.3-Xc-80 | 0 | 11332-3-J008 | | 2 , p.83 | Fish passage Compare water supply/resource or Cosumnes River with what is required for successful fish passage | | | | | | | | | | |
| 2003 Cosumnes River 1, p.3-Xc-80 O 11332-3-J008 2, p.83 Cosumnes River with what is required for | 1995-2005 78 | Cottonwood Creek | | | | | | | Cottonwood Creek | 1 , p.3-Xb-17; 2 , p.3-Xb-17; 3 , p.3-Xb-17 | 1 , p.45; 2 , p.45; 3 , p.45; 4 , p.45; 5 , p.45 | N/A | 3 | 3 | 0% | 5 | 5 (5,0) | 0% |

| | A | В | С | D | | F | G | Н | 1 | J | Ικ | L | М | N | 0 | P | Q | R |
|-----|-----------|---------------|---------------------------------|---|--------------|---------------------------------|---------------------------------|---|---------------|---|---|--|---|----|-----|----|----------------|-----|
| 70 | 1998 | Cow Creek | Superceded by needs of the AFRP | С | 11330-8-G096 | Superseded by needs of the AFRP | G | Anadromous fish monitoringCollect baseline water quality information on Cow Creek | | 1 , p.3-Xb-11; 2 , p.3-Xb-11; | 1 , p.43; 2 , p.44; 3 , p.44; 4 , | | | | | | | |
| 80 | 2003 | Cow Creek | Superceded by needs of the AFRP | 0 | 11330-3-J001 | Superseded by needs of the AFRP | | Watershed planning Cow Creek Watershed Management Plan | Cow Creek | 3 , p.3-Xb-11; 4 , p.3-Xb-11; 5 , p.3-Xb-12; 6 , p.3-Xb-12 | p.44 | N/A | 6 | 6 | 0% | 4 | 4 (4,0) | 0% |
| 81 | 1996 | Deer Creek | 2 , p.3-Xb-50 | С | 11332-6-0192 | 2 , p.56 | | Watershed planning Deer Creek- Continue development of a comprehensive Deer Creek watershed management strategy | | | | | | | | | | |
| 02 | 1997 | Deer Creek | 2 , p.3-Xb-50 | С | 11332-7-J158 | 2 , p.56 | | Water Quality Deer Creek- Implement a water quality monitoring program for Mill and Deer Creeks | | | | | | | | | | |
| 83 | 1997 | Deer Creek | 2 , p.3-Xb-50 | С | 11332-7-G190 | 4 , p.56 | | Riparian acquisition and restorationDeer Creek riparian easement acquisition, 2.5 miles of riparian corridor | | | | | | | | | | |
| 84 | 1998 | Deer Creek | 2 , p.3-Xb-50 | С | 11332-8-G014 | 4 , p.56 | | Riparian acquisition and restorationTo purchase the cons. easements on L&L Cattle Co. and that of J. Gaumer | Deer Creek | 1 , p.3-Xb-50; 3 , p.3-Xb-51; 4 , p.3-Xb-51; 5 , p.3-Xb-51 | 1 , p.56; 3 , p.56 | N/A | 4 | 5 | 20% | 2 | 5 (5,0) | 60% |
| 85 | 2000 | Deer Creek | 2 , p.3-Xb-50 | С | 11332-0-G016 | 4 , p.56 | | Watershed planning Protect riparian habitat on the Leininger property on Deer Creek | | | | | | | | | | |
| 86 | 2000 | Deer Creek | 2 , p.3-Xb-50 | С | 11332-0-J013 | 5 , p.56 | | Watershed planning Provide preliminary engineering and environmental documents for several erosion control projects in the upper Deer Creek watershed | | | | | | | | | | |
| 87 | 1995-2005 | Elder Creek | | | | | | | Elder Creek | 1 , p.3-Xb-36; 2 , p.3-Xb-37 | 1 , p.51 | 1 , p.51 | 2 | 2 | 0% | 2 | 2 (1,1) | 0% |
| 88 | 1995-2005 | Feather River | | | | | | | Feather River | 1, p.3-Xc-3; 2 , p.3-Xc-4; 3 , p.3-Xc-4; 4 , p.3-Xc-4; 5 , p.3 Xc-4; 6 , p.3-Xc-5 | 1 , p.69; 2 , p.69; 3 , p.69 | 1, p.70; 2, p.70; 3, p.70; 4, p.70; 6, p.70; 7, p.70; 8, p.71; 9, p.71 | 6 | 6 | 0% | 11 | 12 (3,9) | 8% |
| 00 | 1998 | Merced River | 4 , p.3-Xd-7 | С | 11332-8-J111 | 3 , p.85 | | Watershed planning Merced River corridor stakeholder group and TAC development | | | | | | | | | | |
| 90 | 1999 | Merced River | 4 , p.3-Xd-7 | С | 11332-9-J031 | 3 , p.85 | | Watershed planning Assist development of locally-led restoration planning efforts | | | | | | | | | | |
| 91 | 1999 | Merced River | 9 , p.3-Xd-8 | С | 11332-9-J023 | 3 , p.85 | 2 , p.82 | Predator-mine pit isolationRestore in-channel habitat at the Ratzlaff Segment of the Mining Reach | | | | | | | | | | |
| 92 | 1999 | Merced River | 6 , p.3-Xd-7 | С | 11332-9-M075 | 3 , p.85 | | Watershed planning Evaluate aggregate materia source and availability on the Tuolumne and Merced rivers and provide an estimate of material required to fill and restore a series of in-channel mining pits in both river systems | | | | | | | | | | |
| 93 | 1999 | Merced River | 9 , p.3-Xd-8 | С | 11332-9-J024 | 3 , p.85 | 2 , p.82 | Predator-mine pit isolationEnhance salmon habitat at the Lower Western Stone segment of the Mining Reach | | | | | | | | | | |
| 94 | 2000 | Merced River | 4 , p.3-Xd-7 | С | OFT | 3 , p.85 | | Restore fluvial geomorphic featuresFederal environmental permits and NEPA documentation for the Robinson Reach of the Merced River Salmon Habitat Enhancement Project | Merced River | 1, p.3-Xd-5; 3 , p.3-Xd-6; 5 , p.3-Xd-6; 8 , p.3-Xd-7; 10 , p.3-Xd-7; 11 , p.3-Xd-8; 12 , | 1, p.85; 2, p.85; 4, p.86; 5, | 3 , p.86 | 7 | 12 | 42% | 4 | 8 <i>(5,3)</i> | 50% |
| 95 | 2000 | Merced River | 6 , p.3-Xd-7 | С | 11332-0-J027 | 3 , p.85 | Superseded by needs of the AFRP | Replenish gravel supply Monitor potential benefits of use of spawning-sized gravel for irrigation diver wing-dam construction | | p.3-Xd-8 | p.00 | | | | | | | |
| 96 | 2000 | Merced River | 4 , p.3-Xd-7 | 0 | OFT | 3 , p.85 | Superseded by needs of the AFRP | Restore fluvial geomorphic features Evaluate use of PHABSIM/2D modeling of spawning and rearing habitat to assess benefits of channel restoration on the Merced River | | | | | | | | | | |
| 97 | 2001 | Merced River | 2 , p.3-Xd-6 | С | 10181-1-Y144 | | 1 , p.82 | Water Quality Merced River Temperature Management Feasibility Study | | | | | | | | | | |
| 98 | 2002 | Merced River | 7 , p.3-Xd-7 | 0 | 10181-2-M405 | | Superseded by needs of the AFRP | Passage- A Feasibility Investigation of Reintroduction of Anadromous Salmonids Above Crocker-Huffman Dam on the Merced River | | | | | | | | | | |
| 99 | 2003 | Merced River | 4 , p.3-Xd-7 | 0 | 11332-3-J010 | 3 , p.85 | Superseded by needs of the AFRP | Restore fluvial geomorphic features Assess the spawning habitat on the Robinson Reach on the Merced River | | | | | | | | | | |
| 100 | 2003 | Merced River | 6 , p.3-Xd-7 | С | 10181-3M326 | 3 , p.85 | 2 , p.86 | Riparian acquisition and restoration easibility study and report for restoration work on the Merced River | | | | | | | | | | |

| | A | В | С | D | E | F | G | Н | 1 | J | К | L | М | N | 0 | Р | Q | R |
|-----|-----------|------------------------------------|--------------------------------------|---|---------------|----------------------------------|----------------------------------|---|-------------------------------------|---|---|--|-----|-----|-----|---|-----------------|-----|
| 101 | 1997 | Mill Creek | 5 , p.3-Xb-39 | С | 11332-6-0188 | 4 , p.53 | | Riparian acquisition and restorationContinue to restore degraded riparian habitat on sections of lower Mill Creek | | | | | | | | | | |
| 102 | 1998 | Mill Creek | 3 , p.3-Xb-39 | С | 11332-8-J201A | 2 , p.52 | | Geomorphology Study the fluvial geomorphology of Mill Creek | | | | | | | | | | |
| 103 | 1998 | Mill Creek | 3 , p.3-Xb-39 | С | 11332-8-G124 | 4 , p.53 | | Riparian acquisition and restorationAcquire a riparian easement on the Birkes property | | 1 , p.3-Xb-38; 2 , p.3-Xb-39; | | | | | | | | |
| 104 | 1998 | Mill Creek | 3 , p.3-Xb-39 | С | 11332-8-G101 | 4 , p.53 | | Riparian acquisition and restorationAcquire a riparian easement on the Dana property | Mill Creek | 4, p.3-Xb-39 | 1 , p.52; 3 , p.52 | 1 , p.53 | 3 | 5 | 40% | 3 | 5 (4,1) | 40% |
| 105 | 1998 | Mill Creek | 3 , p.3-Xb-39 | С | 11332-8-G123 | 4 , p.53 | | Riparian acquisition and restorationAcquire a riparian easement on the Latimer property along Mill Creek | | | | | | | | | | |
| 106 | 2005 | Mill Creek | Superceded by needs of the AFRP | 0 | 81330-5-G354 | Superseded by needs of the AFRP | Superseded by needs of the AFRP | Anadromous fish monitoringPilot hydroacoustic study to determine spring Chinook escapement | | | | | | | | | | |
| 107 | 1995-2005 | Miscellaneous Stream Tributaries | | | | | | | Miscellaneous Stream Tributaries | 2 , p.3-Xb-115; 3 , p.3-Xb-115; 4 , p.3-Xb-115; 5 , p.3-Xb-115; 6 , p.3-Xb-115 | N/A | 1 , p.69 | 5 | 6 | 17% | 1 | 1 (0,1) | 0% |
| 108 | 1998 | Mokelumne River | 2 , p.3-Xc-61 | С | 11332-8-J102 | 2 , p.80; 3 , p.80 | | Gravel restoration Replenish and cleanse gravel in areas of the Mokelumne River suitable for salmonid spawning | | | | | | | | | | |
| 109 | 1999 | Mokelumne River | 2 , p.3-Xc-61 | С | 11332-9-J014 | 2 , p.80 | | Gravel restoration Evaluate spawning gravel in the Mokelumne River (Gravel Enhancement) | | | | | | | | | | |
| 110 | 2000 | Mokelumne River | 9 , p.3-Xc-63 | 0 | 11332-0-G023 | 7 , p.81 | | Riparian acquisition and restorationProtect 23 acres of riparian habitat and reduce streambank erosion 1.5 miles downstream of Camanche Dam on the south side of the Mokelumne River and restore Murphy Creek | Mokelumne River | 1, p.3-Xc-61; 3, p.3-Xc-61; 4, p.3-Xc-61; 5, p.3-Xc-62; 6, p.3-Xc-62; 7, p.3-Xc-62; | 1 , p.80; 4 , p.80; 5 , p.80; 6 , p.80; 9 , p.81 | 1, p.81; 2, p.81; 3, p.81; 4, p.81 | 9 | 12 | 25% | 9 | 13 <i>(9,4)</i> | 31% |
| 111 | 2002 | Mokelumne River | 2 , p.3-Xc-61 | С | 11332-3-A004 | 2 , p.80 | | Gravel restoration Gravel modeling on the Mokelumne River | | 8, p.3-Xc-63; 11, p.3-Xc-64; 12, p.3-Xc-64 | | | | | | | | |
| 112 | 2002 | Mokelumne River | 10 , p.3-Xc-63 | С | 11332-2-M041 | 8 , p.81 | | Water quality-Monitor baseline sediment conditions in Murphy Creek prior to the removal of a small dam later in 2002 | | | | | | | | | | |
| 113 | 2002 | Mokelumne River | 2 , p.3-Xc-61 | 0 | 11332-2-G003 | 2 , p.80 | | Gravel restoration Test Interdisciplinary approach via gravel augmentation | | | | | | | | | | |
| 114 | 2003 | Mokelumne River | 2 , p.3-Xc-61 | 0 | 11332-3-J007 | 2 , p.80 | | Gravel restoration-Mokelumne River Spawning Habitat Improvement Project | | | | | | | | | | |
| 115 | 1995-2005 | Ocean | | | | | | | Ocean | N/A | N/A | 1 , p.109; 2 , p.109; 3 , p.110 | N/A | N/A | N/A | 3 | 3 (0,3) | 0% |
| 116 | 1995-2005 | Paynes Creek | | | | | | | Paynes Creek | 1 , p.3-Xb-32; 2 , p.3-Xb-32 | 1 , p.50; 2 , p.50 | N/A | 2 | 2 | 0% | 2 | 2 (2,0) | 0% |
| 117 | 1996 | Upper Mainstem Sacramento River | 1, p.3-Xb-115 (Misc. Small Tribs) | С | 11332-6-0191 | | | Anadromous fish life history/survivalMisc. Small Streams- Evaluate intermittent east and we side tributaries to the upper mainstem Sacrament River as rearing habitat for juvenile Chinook salmon | | | | | | | | | | |
| 118 | 1996 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | 11332-6-0205 | 9 , p.38 | 1 , p.39; 5 , p.40 | Riparian acquisition and restoration Sacramento River Basin- Pine Creek Orchards property restoration | | | | | | | | | | |

| | А | В | С | D | E | F | G | Н | ı | J | K | L | М | N | 0 | Р | Q | R |
|-----|------|------------------------------------|---|-----|--|--|---|---|------------------------------------|---|--|---|----|----|-----|----|------------|-----|
| 119 | 1997 | Upper Mainstem Sacramento River | Superceded by needs of the AFRP | e C | 11330-7-J024B | 11 , p.38 | 1 , p.39; 5 , p.40 | Riparian acquisition and restorationsmall tributary restoration projects (Western Shasta Resource Conservation District) | | | | | | | | | | |
| 120 | 1997 | Upper Mainstem Sacramento River | 5 , p.3-Xa-13 | С | OFT | | 1 , p.39 | Anadromous fish monitoring Tag late-fall-run Chinook salmon for studies in the Sacramento River | | | | | | | | | | |
| 121 | 1997 | Upper Mainstem Sacramento River | 5 , p.3-Xa-13 | С | OFT | | 1 , p.39; 2 , p.108 (CV- Wide) | Anadromous fish monitoringUpper Sacramento River wild fish (Chinook salmon) tagging | - | | | | | | | | | |
| 122 | 1997 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | 11332-7-G159 | | 5 , p.40 | Riparian acquisition and restoration Sacramento River Basin- Hartley Island riparian property acquisition | | | | | | | | | | |
| 123 | 1997 | Upper Mainstem Sacramento River | 5 , p.3-Xa-13 | С | 11330-7-J045 11330-7-J194 11330-7-J090 | | 4 , p.108 (CV-Wide) | Anadromous fish life history/survival- Sacramento River Genetic maintenance of Hatchery & Natural origin winter-run Chinook salmon | | | | | | | | | | |
| 124 | 1997 | Upper Mainstem Sacramento River | Superceded by needs of the AFRP | c C | 11332-7-J133 | 4, p.107 (CV-Wide) | | Watershed planning Upper Sacramento River- Increased law enforcement to enhance protection of anadromous fish and habitat | | | | | | | | | | |
| 125 | 2000 | Upper Mainstem Sacramento River | 1 , p.3-Xa-12; 2 , p.3-Xa-12 | С | 11330-0-J079 | 1 , p.35; 2 , p.36; 3 , p.36; 4 , p.36 | | Anadromous fish monitoringWinter Chinook mainstem Sacramento River Carcass Survey | | | | | | | | | | |
| 126 | 2003 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | 0 | OFT | 9 , p.38 | | Watershed planning Engineering and Environmental documentation for Sacramento River riparian restoration . La Barranca Unit of the Sacramento River National Wildlife Refuge | Upper Mainstem Sacramento River | 3 , p.3-Xa-12; 4 , p.3-Xa-12 | 5 , p.36; 6 , p.37; 7 , p.37; 8 , p.37; 10 , p.38 | 2 , p.39; 3 , p.39; 4 , p.39; 7 , p.40 | 2 | 6 | 67% | 9 | 22 (11,11) | 59% |
| 127 | 1997 | Upper Mainstem Sacramento River | 5 , p.3-Xa-13 | С | OFT | | 3 , p.108 (CV-Wide) | Anadromous fish life history/survivaEvaluate survival, distribution and contribution of fall-run production from the upper mainstem Sacramento River and Coleman National Fish Hatchery during April and May 1997 | | | | | | | | | | |
| 128 | 1997 | Upper Mainstem Sacramento River | 1, p.3-Xg-3; 2, p.3-Xg-3; 3, p.3-Xg-4 (American Shad) | С | OFT | | 8 , p.40 | Anadromous fish monitoringConduct juvenile American shad monitoring in the Delta | | | | | | | | | | |
| 129 | 1998 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | 11332-8-G117 | 9 , p.38 | 1 , p.39; 5 , p.40 | Riparian acquisition and restorationLand acquisition assessment of Chicory Bend | - | | | | | | | | | |
| 130 | 1998 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | OFT | 9 , p.38 | 1 , p.39; 5 , p.40 | Riparian acquisition and restoration Sacramento River Basin- Acquire a riparian easement on Millar Farms Inc., Glenn County | | | | | | | | | | |
| 131 | 1998 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | 11332-8-G100 | 9 , p.38 | | Watershed planning Upper Sacramento River: Study effects of public ownership of meander belt properties on property tax income in Glenn Count | | | | | | | | | | |
| 132 | 1999 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | 11332-9-G018 | 9 , p.38 | | Watershed planning Upper Mainstem Sacramento River- Study effects of public ownership of meander-belt properties on property tax income | | | | | | | | | | |
| 122 | 2000 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | 11620-0-J331 | 9 , p.38 | 1 , p.39; 5 , p.40 | Riparian acquisition and restorationStudy the feasibility of restoring floodplain and riparian processes at the La Barranca Unit of the Sacramento River National Wildlife Refuge on the Sacramento River | | | | | | | | | | |
| 134 | 2000 | Upper Mainstem Sacramento River | 6 , p.3-Xa-13 | С | 11332-0-J015 | | 11 , p.109 (CV-Wide) | Watershed planning Upper Mainstream Sacramento River- Provide support to the newly established Sacramento River conservation Association | | | | | | | | | | |
| 135 | 1997 | Sacramento-San Joaquin Delta | 1b , p.3-Xe-7 | С | OFT | 5 , p.100 | 3 , p.105 | Anadromous fish life history/survivaEvaluate survival of coded-wire tagged fall-run Chinook salmon juveniles in the Delta during April and May 1997 | , | 1a , p.3-Xe-7; 1c , p.3-Xe-7; | "Operational Target" 1, p.99; 2, p.100; 3, p.100; 4, p.100 "Supplemental Action | | | | | | | |
| 136 | 1997 | Sacramento-San Joaquin Delta | 1 b , p.3-Xe-7 | С | OFT | 5 , p.100 | 3 , p.105 | Anadromous fish life history/survivaEvaluate survival of coded-wire tagged late-fall-run Chinook salmon juveniles in the Delta during December 1996-97 | | 1d, p.3-Xe-7; 2, p.3-Xe-8; 3, p.3-Xe-8; 4, p.3-Xe-9; 5a, p.3-Xe-9; 5b, p.3-Xe-9; 5c, p.3-Xe-9; 6, p.3-Xe-9; 7a, p.3-Xe-7; 7b, p.3-Xe-7; 7c, p.3-Xe-7 | Requiring Water" 6, p.101; 7, p.101; 8, p.102; 9, p.102; 10, p.103; 11, | 1, p.104; 2, p.105; 5, p.105; 6, p.105; 7, p.106; 8, p.106; 9, p.106; 10, p.106; 11, p.106; 12, p.106; 13, p.106 | 13 | 14 | 7% | 26 | 29 (16,13) | 10% |
| 137 | 1999 | Sacramento-San Joaquin Delta | Superseded by needs of the AFRP | 0 | 11332- 9 -J026 | Superseded by needs of the AFRP | Superseded by needs of the AFRP | Gravel restoration Update and validate the spawning riffle atlas for the San Joaquin tributaries | s | | "Supplemental Action Not Requiring Water" 15 , p.104; 16 , p.104 | | | | | | | |

| | A | В | С | D | E | F | G | Н | I | J | К | L | М | N | 0 | Р | Q | R |
|-----|------|----------------------------|------------------------------------|---|--|---------------------------------|----------------------------------|---|-------------------------------|--|--|---|---|----|-----|----|----------|-----|
| 138 | 2000 | Mainstem San Joaquin River | Superseded by needs of the AFRP | С | 11332-0-J030 | Superseded by needs of the AFRP | Superseded by needs of the AFRP | Gravel restoration Study the feasibility of developing a long-term aggregate source for San Joaquin tributary channel restoration projects | | | | | | | | | | |
| 139 | 2000 | Mainstem San Joaquin River | Superseded by needs of the AFRP | 0 | 11332-0-J021 | Superseded by needs of the AFRP | Superseded by needs of the AFRP | Anadromous fish life history/survivalAnalyze archived San Joaquin Basin Chinook salmon scale samples and develop a comprehensive database accessible to interested parties | Mainstem San Joaquin River | 1, p.3-Xd-43; 2, p.3-Xd-43; 3, p.3-Xd-44; 4, p.3-Xd-44; 5, p.3-Xd-44; 6, p.3-Xd-44; 7, p.3-Xd-45; 8, p.3-Xd-45; | 1 , p.93; 2 , p.93; 3 , p.93; 4 , p.94; 5 , p.94; 6 , p.94 | 1 , p.94; 3 , p.95; 5 , p.95; 6 , p.95; 7 , p.96 | 9 | 10 | 10% | 11 | 13 (6,7) | 15% |
| 140 | 2000 | Mainstem San Joaquin River | 10 , p.3-Xd-46 | С | 11332-0-J022 | | 2 , p.95; 4 , p.95 | Hydrological modeling/monitoringEvaluate proposed non-structural flood control management alternatives on the San Joaquin River National Wildlife Refuge | | 9 , p.3-Xd-46 | | | | | | | | |
| 141 | 2001 | Mainstem San Joaquin River | Superseded by needs of the AFRP | С | OFT | Superseded by needs of the AFRP | Superseded by needs of the AFRP | Anadromous fish monitoringHealth Monitoring of Hatchery and Fall-run Chinook Juveniles | | | | | | | | | | |
| 142 | 1997 | Stanislaus River | 1 , p.3-Xd-31 | 0 | 11300-6-0039. | | 2 , p.91 | Anadromous fish life history/survival/uvenile Chinook salmon survival study- tagging and marking | | | | | | | | | | |
| 143 | 1997 | Stanislaus River | 1 , p.3-Xd-31 | 0 | 11332-0-M007 (AFRP); 10181-1- C024 (B2); for FY 2000 | | 2 , p.91 | Anadromous fish monitoringStanislaus River juvenile Chinook salmon rotary screw trap (RST) monitoring | | | | | | | | | | |
| 144 | 1998 | Stanislaus River | 3 , p.3-Xd-31 | С | 11332-8-J112 | 2 , p.91 | | Riparian acquisition and restorationAcquire and restore the Mohler property | | | | | | | | | | |
| 145 | 1998 | Stanislaus River | 3 , p.3-Xd-31 | С | 11332-8-M234 | 2 , p.91 | | Riparian acquisition and restorationLand acquisition assessment of the Mohler property on the Stanislaus and three properties on the Cosumnes River | | | | | | | | | | |
| 146 | 1998 | Stanislaus River | 8 , p.3-Xd-32 | С | 11332-8-J115 | | 2 , p.91 | Anadromous fish life history/survivaRestore the Stanislaus River channel at the Wilms site | | | | | | | | | | |
| 147 | 1999 | Stanislaus River | 8 , p.3-Xd-32 | С | 11332- 9 -J010 | | 2 , p.91 | Anadromous fish life history/survivaEvaluate the use of radio-tagged juvenile Chinook salmon to identify cause and location of mortality | | | | | | | | | | |
| 148 | 1999 | Stanislaus River | 8 , p.3-Xd-32 | С | Funds directly from BOR in 1999 and PO 10181-0-M301 in 2000. | | 2 , p.91 | Anadromous fish life history/survivaEvaluation of smolt survival | | | | | | | | | | |
| 149 | 1999 | Stanislaus River | 3 , p.3-Xd-31 | С | 11332-9-M080 | 2 , p.91 | | Riparian acquisition and restorationLand acquisition assessment of Two-mile Bar | | | | | | | | | | |
| 150 | 2000 | Stanislaus River | 8 , p.3-Xd-32 | С | 11332-0-M017 | | 2 , p.91 | Anadromous fish life history/survivaEvaluate juvenile Chinook salmon behavior in response to a rotary screw trap | Stanislaus River | 2 , p.3-Xd-31; 4 , p.3-Xd-32; 6 , p.3-Xd-32; 7 , p.3-Xd-32; | 1 , p.90; 3 , p.91 | 1 , p.91; 3 , p.91; 4 , p.92; 5 , p.92 | 6 | 10 | 40% | 6 | 9 (3,6) | 33% |
| 151 | 2000 | Stanislaus River | 8 , p.3-Xd-32 | С | 11332-0-M009 | | 2 , p.91 | Anadromous fish life history/survivalStatistical analysis of the 1999 Stanislaus River smolt survival experiment | | 9 , p.3-Xd-33; 10 , p.3-Xd-33 | | | | | | | | |
| 152 | 2000 | Stanislaus River | 1 , p.3-Xd-31 | С | 11332-0-M013 11332-0-M012 | | 2 , p.91 | Anadromous fish monitoringStatistical peer review of the Caswell 1999 statistical model and methods | | | | | | | | | | |
| 153 | 2000 | Stanislaus River | 3 , p.3-Xd-31 | 0 | 11332-0-J025 | 2 , p.91 | | Gravel restoration Evaluate acquisition feasibility and channel restoration and aggregate source potential for Two-mile Bar | | | | | | | | | | |
| 154 | 2000 | Stanislaus River | 3 , p.3-Xd-31 | 0 | 11332-0-J031 | 2 , p.91 | | Watershed education Initiate broader stakeholder outreach and community awareness or restoration issues on the lower Stanislaus River | | | | | | | | | | |
| 155 | 2001 | Stanislaus River | 3 , p.3-Xd-31 | 0 | 11332-1-J003 | 2 , p.91 | | Riparian acquisition and restorationSpawning Habitat Restoration in the Stanislaus River, Lover's Leap Reach | | | | | | | | | | |
| 156 | 2002 | Stanislaus River | 5 , p.3-Xd-32 | 0 | 10181-2-M629 | 2 , p.91 | | Watershed planning Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam | | | | | | | | | | |
| 157 | 2002 | Stanislaus River | 1 , p.3-Xd-31 | 0 | 11332-2-J004 | | 6 , p.92 | Anadromous fish monitoringTest of Portable Alaskan Weir on the Stanislaus River | | | | | | | | | | |
| 158 | 2002 | Stanislaus River | 5 , p.3-Xd-32 | 0 | 10181-2-M406 | 2 , p.91 | | Gravel restoration Knight's Ferry Gravel Replenishment, Phase II | | | | | | | | | | |

| | A | В | С | D D | E E | F | G | Н | 1 | l j | К | L | M | l N | 0 | Р | Q | R |
|-----|-----------|----------------|--|-----|---|----------------------------------|-----------------|--|----------------|--|--|----------------------------------|---|-----|-----|---|-----------------|-----|
| | | | | | | · | | | | 1, p.3-Xb-56; 2 , p.3-Xb-56; | · · | _ | | ., | | | | ., |
| 159 | 1995-2005 | Stoney Creek | | | | | | | Stoney Creek | 3, p.3-Xb-56; 4, p.3-Xb-57; 5, p.3-Xb-57; 6, p.3-Xb-57; 7, p.3-Xb-57; 8, p.3-Xb-57 | N/A | 1 , p.57 | 8 | 8 | 0% | 1 | 1 (0,1) | 0% |
| 160 | 1995-2005 | Thomes Creek | | | | | | | Thomes Creek | 1 , p.3-Xb-44; 2 , p.3-Xb-44; 3 , p.3-Xb-44; 4 , p.3-Xb-44 | 1 , p.54; 2 , p.54; 3 , p.54; 4 , p.55 | 1 , p.55; 2 , p.55 | 4 | 4 | 0% | 6 | 6 (4,2) | 0% |
| 161 | 1996 | Tuolumne River | 4 , p.3-Xd-19 | С | 11332-6-0189 | 2 , p.87 | | Watershed planning Lower Tuolumne River restoration plan scoping and proposed workplan | | | | | | | | | | |
| 162 | 1997 | Tuolumne River | 2, p.3-Xd-19; 4, p.3-Xd-19; 5, p.3-Xd-20; 6, p.3-Xd-20 | С | 11332-7-J189 | 2 , p.87 | | Restore fluvial geomorphic featuresRestore the 7/11 Segment of the Mining Reach Project #1 | | | | | | | | | | |
| 163 | 1997 | Tuolumne River | 9 , p.3-Xd-20 | С | 11332-7-J188 | 2 , p.87 | 2 , p.88 | Predator-mine pit isolationChannel Restoration: Special Run Pools 9 and 10 | | | | | | | | | | |
| 164 | 1998 | Tuolumne River | 2 , p.3-Xd-19 | С | 11332-8-G121 | 2 , p.87 | | Riparian restoration/water temperatures Acquire a riparian easement and restore Grayson River Ranch | | | | | | | | | | |
| 165 | 1998 | Tuolumne River | 4 , p.3-Xd-19 | С | 11332-8-G109 | 2 , p.87 | | Adaptive management Assist with the peer review process for Tuolumne River Technical Advisory Committee supported monitoring efforts | | | | | | | | | | |
| 166 | 1999 | Tuolumne River | Superseded by needs of the AFRP | 0 | 11332-9-J026 | Superseded by needs of the AFRP | | Watershed planning Update and validate the spawning riffle atlas for the San Joaquin tributaries | | | | | | | | | | |
| 167 | 1999 | Tuolumne River | 4 , p.3-Xd-19 | С | 11332-9-J009 | 2 , p.87 | | Watershed planning Assist with technical outreach for the Tuolumne River Technical Advisory Committee | | | | | | | | | | |
| 168 | 1999 | Tuolumne River | 1 , p.3-Xd-18 | С | 11332-9-M051 | | 1 , p.88 | Instream flows CWT and multiple mark/recapture smolt survival power analysis | Tuolumne River | 3 , p.3-Xd-19; 7 , p.3-Xd-20; 8 , p.3-Xd-20; 10 , p.3-Xd- | 1 , p. 87; 3 , p.88; 4 , p.88; 5 , p.88; 6 , p.88 | 3 , p.89 | 5 | 11 | 55% | 6 | 10 <i>(6,4)</i> | 40% |
| 169 | 1999 | Tuolumne River | 2 , p.3-Xd-19; 4 , p.3-Xd-19; 5 , p.3-Xd-20; 6 , p.3-Xd-20 | 0 | 11332-9-J025 | 2 , p.87 | | Restore fluvial geomorphic featuresMJ Ruddy Segment of the Mining Reach Project #2 | | 20; 11 , p.3-Xd-21 | p.c.s, s, p.c. | | | | | | | |
| 170 | 2000 | Tuolumne River | 9 , p.3-Xd-20 | С | (BOR-FWS Interagency Agreement # 99AA200226), 113320-J018 | | 2 , p.88 | Predator-mine pit isolationSpecial Run-Pool 10 dike repair and pre-project monitoring | | | | | | | | | | |
| 171 | 2000 | Tuolumne River | 5 , p.3-Xd-19 | С | 11332-0-J017 | 2 , p.87 | | Watershed planning Tuolumne River Course Sediment Management Plan | | | | | | | | | | |
| 172 | 2000 | Tuolumne River | 4 , p.3-Xd-19 | С | 11332-1-J001 | 2 , p.87 | | Watershed education Watershed Outreach and Stewardship Proposal | | | | | | | | | | |
| 173 | 2000 | Tuolumne River | 6 , p.3-Xd-20 | С | 11332-0-J029 | 2 , p.87 | | Replenish gravel supply Enhance salmon and steelhead/rainbow trout spawning habitat by addin gravel to three riffles below the Old LaGrange Bridge | | | | | | | | | | |
| 174 | 2001 | Tuolumne River | 2, p.3-Xd-19; 4, p.3-Xd-19; 5, p.3-Xd-20; 6, p.3-Xd-20 | 0 | 11332-1-G004 | 2 , p.87 | | Restore fluvial geomorphic featuresWarner- Deardorff Segment Project #3 | | | | | | | | | | |
| 175 | 2003 | Tuolumne River | 1 , p.3-Xd-18 | 0 | 10181-3-M422 | | 4 , p.89 | Instream flows Upmigration of salmonids on the Tuolumne in response to fall attraction flows and environmental factors | | | | | | | | | | |
| 176 | 2004 | Tuolumne River | 2 , p.3-Xd-19; 4 , p.3-Xd-19; 5 , p.3-Xd-20; 6 , p.3-Xd-20 | С | 11332-4-N002 | 2 , p.87 | | Restore fluvial geomorphic featuresMJ Ruddy property mineral appraisal | | | | | | | | | | |
| 177 | 1996 | Yuba River | 4 , p.3-Xc-13 | С | 11332-6-0190 | 7 , p.72 | | Fish passage Daguerre Point Dam Fish Ladder Modification, Diversion Improvements: Feasibility Study and Preliminary Environmental Analysis | | | | | | | | | | |
| 178 | 1998 | Yuba River | 3 , p.3-Xc-12 | С | 11332-8-J106 | 5 , p.72 | | Hydrological modeling/monitoring/reliminary Engineering for Yuba Goldfields Outflow Barrier | | | | | | | | | | |
| 179 | 1998 | Yuba River | 2 , p.3-Xc-12 | С | 11332-8-M245 | | 3 , p.73 | Water Quality Water Temperature Model | | | | | | | | | | |
| 180 | 1999 | Yuba River | 4 , p.3-Xc-13 | С | 11332-9-G008 | | 4 , p.73 | Watershed education Facilitate three public meetings to gain agreement on the initial components of a study plan to evaluate the feasibility of restoring anadromous fish runs above Englebright Dam on the Yuba River | | | | | | | | | | |
| 181 | 1999 | Yuba River | 3 , p.3-Xc-12 | С | 11332- 9 -J029 | 5 , p.72; 6 , p.72 | | Fish passage Develop Fish Screen and Diversion Bypass Feasibility Alternatives at Hallwood- Cordua Irrigation Headworks | | | | | | | | | | |

| | Α | В | С | D | Е | F | G | Н | I | J | K | L | M | N | 0 | Р | Q | R |
|-----|-------------------------|--|------------------------------------|-------------------------|----------------------------------|---------------------------------|---------------------------------|---|------------|--|---|----------------------------------|----------------------------------|-------------|----------------------------|-----------------------------------|-------------|-----------------------------|
| 182 | 1999 | Yuba River | Superceded by needs of the AFRP | 0 | 11332-9-G011 | | 4 , p.73 | Anadromous fish life history/survivaEvaluate the Life History and Status of Steelhead | | 1 , p.3-Xc-12; 5 , p.3-Xc-13 | 1, p.71; 2 , p.71; 3 , p.72; 4 , | | | | | | | |
| 183 | 1999 | Yuba River | 3 , p.3-Xc-12 | С | 11332-9-G019 | 5 , p.72 | | Anadromous fish life history/survivalExtend Outmigrant Survey and Salvage at the Hallwood- Cordua Irrigation Diversion, Summer 1999 | Yuba River | 6, p.3-Xc-13; 7 , p.3-Xc-1; | | 1 , p.73; 2 , p.73 | 4 | 7 | 43% | 9 | 14 (10,4) | 36% |
| 184 | 1999 | Yuba River | Superseded by needs of the AFRP | 0 | 11332-9-G011 | Superseded by needs of the AFRP | Superseded by needs of the AFRP | Anadromous fish life history/survivalStock Composition and Life History of Steelhead in the Lower Yuba River | | | | | | | | | | |
| 185 | 2000 | Yuba River | Superceded by needs of the AFRP | 0 | 11332-0-G026 | | 4 , p.73 | Anadromous fish life history/survivalChinook salmon and steelhead life history evaluation | | | | | | | | | | |
| 186 | 2001 | Yuba River | 2 , p.3-Xc-12 | С | 11332-1-J010 | | 3 , p.73 | Hydrological modeling/monitoring\narrows 2 Hydro Power Plant Flow Bypass System Design | | | | | | | | | | |
| 187 | 2002 | Yuba River | 3 , p.3-Xc-12 | 0 | 11332-2-J001 | Superseded by needs of the AFRP | Superseded by needs of the AFRP | Fish passage Construction of exclusion device to prevent Yuba River salmon from accessing the Goldfields | | | | | | | | | | |
| 188 | 2002 | Yuba River | Superceded by needs of the AFRP | 0 | 11332-2-J007 | | 4 , p.73 | Anadromous fish life history/survivaLife History/Eval in lower Yuba River | | | | | | | | | | |
| 189 | 2003 | Yuba River | Superceded by needs of the AFRP | 0 | 11332-3-J011 | | 4 , p.73 | Gravel restoration Spawning Habitat Integrated Rehabilitation Approach (SHIRA) | | | | | | | | | | |
| 190 | | | | | | | | | | | | | # LF <u>Not Yet</u> Addressed | Total # LFs | Percentage LF Completed | # A&E <u>Not Yet</u> Addressed | Total # A&E | Percentage A&E Completed |
| 191 | | | | | | | | | | | | TOTALS | 146 | 197 | 26% | 207 | 289 | 28% |
| | | he numerical ranking from top to b | | | | | | | | | | | | | | | | |
| | | he numerical ranking from top to balletions are direct AFRP funded | | on in the AFRP Restorat | tion Plan. The next number after | the comma refers to the pag | ination in the AFRP Restor | ation Plan. | | | | | | | | | | |
| 194 | o. Those actions and ev | allactions are direct At 141' fullued | only. | | | | | | | | | | | | | | | |